

Benjamin Fox

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EDUCATION

Virginia Polytechnic Institute and State University

Master of Science in Education - Career and Technical Education

Blacksburg, VA

July 2016 – May 2017

Virginia Polytechnic Institute and State University

Bachelor of Science in Business Information Technology - Decision Support Systems

Blacksburg, VA

Aug. 2012 – May 2016

TECHNICAL SKILLS

Languages: JavaScript, HTML, CSS, TypeScript

Frameworks: React, Node.js, Nextjs, Express, Sass

Developer Tools: Git, Github, Docker, Heroku, VS Code, Vercel

Libraries: Jest, SuperTest, Mongoose, Mantine-UI, Zod, Passport, React-Hook-Form, React-Router, cron

EXPERIENCE

High School Teacher

Fairfax County Public Schools

Aug. 2017 – Sept 2022

Herndon, VA

- Department Lead for Digital Applications, a class teaching English Language learners common tech use in FCPS
- Awarded 'Blue Star' in special education personal finance for 90% rate on standardized exam
- Chair of the 'We Are Herndon' committee to integrate community into the school culture
- Sponsored a team of students selected by Carnegie Mellon Computer Science 'Fall Showcase' for coding in Python
- Lead Mentor to students from nontraditional backgrounds, to facilitate setting academic, social, and personal goals
- Junior Varsity Basketball coach and school representative liaison for student athletes

PROJECTS

Trackfic | *Typescript, Nextjs, Express, Mantine-UI, Docker, Vercel*

- Tracks routes given by user with Open Maps and Google Maps API for accurate commute duration
- Cron scheduled tasks for asynchronous API calls for database input
- Backend deployed with Docker, Frontend with Vercel
- Mantine-UI inspired design for stylistic uniformity
- Authentication by JWTs and Cookies

Letter Generator | *React, Nextjs, Sass, Vercel*

- Leverages OpenAI Davinci text model to generate an outline for a cover letter
- Authentication through NextAuth to user's Github or Google account for quick signup
- Nextjs and Vercel with serverless functions implemented in backend
- SASS modules with custom variables and mixins for front-end styling
- Requests are rate limited and ran through content filter to protect against bad-faith users

Learnsplain Blog | *React, Sass, Heroku*

- Traditional blog site to geared for people to learn about javascript
- React router for navigation based on post ids and status
- Passport local authentication strategy with Bcrypt for hashes and salting
- Heroku deployment from Git for updates
- Quilljs text editor to let users style their posts with HTML tags